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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,096	11/04/2003	David A. Beck	VOI0156.DIV	4401	
7590 03/21/2006			EXAM	INER	
Todd T. Taylor			CHEVALIER, ALICIA ANN		
Taylor & Aust, P.C. 142 S. Main St.			ART UNIT	PAPER NUMBER	
P.O. Box 560			1772		
Avilla, IN 46	710		DATE MAILED: 03/21/2000	DATE MAILED: 03/21/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/701,096	BECK, DAVID A.				
		Examiner	Art Unit				
		Alicia Chevalier	1772				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address:	••			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communic (D) (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 20 Ja	nuary 2006.					
2a)⊠	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-9</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) <u>1-9</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or						
Applicati	on Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.12				
Priority u	ınder 35 U.S.C. § 119						
12)[ a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prioric application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	•			
Attachment		a) □ 1-4 t 0	, (DTO 442)				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	atent Application (PTO-152)				

### **RESPONSE TO AMENDMENT**

# Request for Continued Examination

- 1. The Request for Continued Examination (RCE) under 37 CFR 1.53 (d) filed on \*\*\* is acceptable and a RCE has been established. An action on the RCE follows.
- 2. Claims 1-9 are pending in the application, claims 10-19 have been cancelled.
- 3. Amendments to the claims, filed on January 20, 2006, have been entered in the above-identified application.

#### **REJECTIONS**

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

# Claim Rejections - 35 USC § 103

5. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Romanski (U.S. Patent No. 4,224,372) in view of Hartigan, Jr. (U.S. Patent No. 4,482,601), Kirby (U.S. Patent No. 4,351,874) and Peterson (U.S. Patent No. 3,652,390).

Regarding Applicant's claim 1, Romanski discloses a unitary membrane for use in a pressing apparatus (press section of a paper making machine, col. 1, lines 7-14) comprising a continuous belt (endless dryer belt, col. 1, lines 8-9 and lines 16-18) which is deemed to have a pair of longitudinal edge portions on the belt and a semipermeable portion with a plurality of intercommunicating pores (interstices or voids, col. 2, lines 63-64). The unitary membrane

comprises a fromed fabric and the semipermeable portion is deemed to be both gas and liquid permeable, since it has the same total permeability of greater than zero and less than about five CFM per square foot (col. 1, lines 59-64).

Romanski fails to disclose that the unitary membrane has a thickness less than about 0.1 inches. Romanski also fails to disclose that the longitudinal edges are impermeable.

Peterson discloses papermaking fabric (title) that comprises bands of plastic on the edges (col. 2, lines 65-66). Thus the resulting paper web has very straight, even trim (col. 3, lines 3-15).

Both Kirby and Hartigan disclose felts used as dryer belts in paper making machines. Both also disclose that the thickness of the felt is less than about 0.1 inches (Hartigan, col. 7, lines 66-67 and Kirby, col. 4, table 1).

Romanski, Peterson, Kirby and Hartigan are analogous because they all disclose felts used as dryer belts in paper making machines.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add Peterson's edge bands to Romanski's edges so that the resulting paper wed does not need to be trimed.

It would have been obvious to one of ordinary skill in the art at the time of the invention to change the thickness of the membrane, since a modification would have involved a mere change in size of the membrane. A change in size is generally recognized as being within the level of ordinary skill in the art, absent unexpected results. MPEP 2144.04 (I) and (IV). One of ordinary skill in the art would have been motivated to use a thickness of less than about 0.1 inches because it is known to make felt dryer belts of that thickness.

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Regarding Applicant's claim 2, Romanski discloses that one can obtain fabrics of the invention having varied permeabilities by selection of the density of the yarns, which are employed in the construction of the fabric. Thus, by providing a higher density of the yarns which are subsequently encapsulated in foam, one can have lower permeability fabrics (col. 4, lines 3-9).

Therefore, the exact total permeability of the membrane is deemed to be a result effective variable with regard to the density of the yarn. It would require routine experimentation to determine the optimum value of a result effective variable, such as total permeability, in the absence of a showing of criticality in the claimed total permeability. *In re Boesch*, 205 USPQ 215 (CCPA 1980), *In re Woodruff*, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

Regarding Applicant's claim 3, Romanski discloses that the total permeability is determined by at least one of a size, a shape, a frequency and a pattern of a plurality of pores in the semipermeable portion (col. 2, line 63 through col. 3, line 18).

Regarding Applicant's claim 4, Romanski fails to disclose that the cross section of the unitary membrane has a trapezoidal shape. However, it would have been an obvious matter of design choice to change the shape of cross section of the membrane, since a modification would have involved a mere change in size of the membrane. A change in size or shape is generally recognized as being within the level of ordinary skill in the art, absent unexpected results. MPEP 2144.04 (I) and (IV).

Regarding Applicant's claim 5, the pair of longitudinal edge portions of Romanski's dryer belt are deemed to be impermeable since the yarn is not interwoven to create interstices at the edges.

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Regarding Applicant's claim 6, Romanski discloses that the formed fabric forms a flow resistance layer near a surface of the unitary membrane (foamable composition, col. 3, line 29).

Regarding Applicant's claim 7, Romanski discloses that the unitary membrane further comprises a fluid distribution layer (fabric, col. 2, line 46) adjacent the flow resistant layer.

Regarding Applicant's claim 8, the unitary membrane is deemed to have an abrasion resistant surface, since Romanski discloses that the membrane comprises a formed fabric (col. 2, lines 44-62).

Regarding Applicant's claim 9, the exact void percentage of the membrane is deemed to be a result effective variable with regard to the permeability. It would require routine experimentation to determine the optimum value of a result effective variable, such as void percentage, in the absence of a showing of criticality in the claimed percentage. *In re Boesch*, 205 USPQ 215 (CCPA 1980), *In re Woodruff*, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

## ANSWERS TO APPLICANT'S ARGUMENTS

6. Applicant's arguments in the response filed January 20, 2006 regarding the previous rejections of record have been considered but are most since the rejections have been withdrawn.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ac/ 16/06